Journal of Non-Crystalline Solids 102 (1988) 303–305
North-Holland, Amsterdam

AUTHOR INDEX

Abeles, B., see Persans 102 (1988) 130
Adachi, T., see Sakka 102 (1988) 263
Angell, C.A., Structural instability and relaxation in liquid and glassy phases near the fragile liquid limit (*Invited paper*) 102 (1988) 205
Antonucci, J., see Singh 102 (1988) 112

Bach, H., Ion beam sputtering of silicate glasses and oxides 102 (1988) 36
Bach, H., Estimation of the enthalpies of formation for leached subsurface layer materials from ion beam sputtering and analysis 102 (1988) 43
Baker, D.R. and E.B. Watson, Diffusion of major and trace elements in compositionally complex Cl- and F-bearing silicate melts 102 (1988) 62
Bhargava, A., J.E. Shelby and R.L. Snyder, Crystallization of glasses in the system $BaO–TiO_2–B_2O_3$ 102 (1988) 136
Boehm, L., K.-H. Chung and C.T. Moynihan, Phase separation in lead containing fluorozirconate glasses 102 (1988) 150
Borzo, M., see Che 102 (1988) 280
Bruce, A.J., L.G. van Uitert and W.H. Grodkiewicz, Stability of arsenate glasses: resistance of hydrolysis 102 (1988) 19

Carney, R.V., see Che 102 (1988) 280
Che, T.M., R.V. Carney, G. Khanarian, R.A. Keosian and M. Borzo, Electro-optical DC Kerr effects and solid state deuteron NMR studies of stable gel-derived glass–organic polymer composites 102 (1988) 280
Choi, S.R., see Jakus 102 (1988) 82
Chung, K.-H., see Boehm 102 (1988) 150
Clarkin, J.P., B.J. Skutnik and B.D. Munsey, Enhanced strength and fatigue resistance of silica fibers with hard polymeric coatings 102 (1988) 106
Coon, J., M. Horton and J.E. Shelby, Stability and crystallization of lead halosilicate glasses 102 (1988) 143
Cooper, A.R., see Hrma 102 (1988) 88
Crichton, S.N. and C.T. Moynihan, Structural relaxation of lead silicate glass 102 (1988) 222

Day, D.E., see Rajaram 102 (1988) 173
De Jong, B.H.W.S., see Dickinson Jr 102 (1988) 196
De Lambilly, H. and L.C. Klein, Crystallization of lithium aluminosilicate gels 102 (1988) 269
Dickinson Jr, J.E., B.H.W.S. de Jong and C.M. Schramm, Hydrogen-containing glass and gas-ceramic microfoams: Raman, XPS, and MAS–NMR results on the structure of precursor $SiO_2–B_2O_3–P_2O_5$ glasses 102 (1988) 196
Doremus, R., see Mathew 102 (1988) 165
Doremus, R.H., see Schnatter 102 (1988) 11
Dumais, C.S., see Schroeder 102 (1988) 240

Floudas, G.A., see Schroeder 102 (1988) 295
Frischat, G.H., see Runge 102 (1988) 157

Grodkiewicz, W.H., see Bruce 102 (1988) 19
Gupta, P.K., Fictive pressure effects in structural relaxation 102 (1988) 231
Gupta, P.K., A gradient energy formalism for the nonexponential structural relaxation kinetics 102 (1988) 250

Haglund Jr, R.F., see Wang 102 (1988) 288
Han, W.T., see Hrma 102 (1988) 88
Hara, M., Glass transition related to ionic distribution in amorphous media 102 (1988) 259
Higby, P.L., J.C. Lapp and J.E. Shelby, Crystallization of lithium alumino/gallosilicate glasses 102 (1988) 125
Hoffmann, H.J., see Jochs 102 (1988) 255
Horton, M., see Coon 102 (1988) 143
Hrma, P., W.T. Han and A.R. Cooper, Thermal healing of cracks in glass 102 (1988) 88
Hwa, L.G., see Schroeder 102 (1988) 240

Jakus, K., J.E. Ritter Jr, S.R. Choi, T. Lardner and B.R. Lawn, Failure of fused silica fibers with subthreshold flaws 102 (1988) 82
Jarek, J.J., see Schroeder 102 (1988) 181

Jewell, J.M. and J.E. Shelby, Effect of water content and alumina additions on the transformation range properties of Na_2O–$3SiO_2$ glasses 102 (1988) 24

Jochs, W.W., H.J. Hoffmann and N.M. Neuroth, The effects of thermal treatment below the glass transition temperature on the refractive index of optical glass 102 (1988) 255

Katz, J.L., see Singh 102 (1988) 112
Kendall, G., see Schroeder 102 (1988) 240
Keosian, R.A., see Che 102 (1988) 280
Khanarian, G., see Che 102 (1988) 280
Kinser, D.L., see Wang 102 (1988) 288
Kitami, Y., see Makishima 102 (1988) 275
Klein, L.C., see De Lambilly 102 (1988) 269
Kozuka, H., see Sakka 102 (1988) 263

Krieger, U.K. and W.A. Lanford, Field assisted transport of Na^+ ions, Ca^{2+} ions and electrons in commercial soda-lime glass I: Experimental 102 (1988) 50

Kurkjian, C.R., Mechanical stability of oxide glasses (*Invited paper*) 102 (1988) 71

Lanford, W.A., see Schnatter 102 (1988) 11
Lanford, W.A., see Krieger 102 (1988) 50
Lapp, J.C., see Higby 102 (1988) 125
Lardner, T., see Jakus 102 (1988) 82
Lawn, B.R., see Jakus 102 (1988) 82

MacCrone, R.K., see MagGregor 102 (1988) 30

MagGregor, A.I. and R.K. MacCrone, Defects of O^+ implanted silicate glass and reactions with water 102 (1988) 30

Makishima, A., K. Shingyouchi, Y. Kitami and M. Tsutsumi, Microstructural studies of leached TiO_2–SiO_2 gel 102 (1988) 275

Mathew, J. and R. Doremus, Vaporization of zirconium fluoride glasses 102 (1988) 165
Mendenhall, M.H., see Wang 102 (1988) 288
Meyer, E., Adiabatic nucleation and glasses 102 (1988) 148
Moynihan, C.T., see Boehm 102 (1988) 150
Moynihan, C.T., see Crichton 102 (1988) 222
Munsey, B.D., see Clarkin 102 (1988) 106

Neuroth, N.M., see Jochs 102 (1988) 255

Penn, R.W., see Singh 102 (1988) 112

Persans, P.D., A. Ruppert and B. Abeles, Crystallization kinetics of amorphous Si/SiO_2 superlattice structures 102 (1988) 130

Rajaram, M. and D.E. Day, Preparation and properties of oxynitride glasses made from $27R_2O \cdot 20BaO \cdot 3Al_2O_3 \cdot 50P_2O_5$ glass 102 (1988) 173

Ritter Jr, J.E., see Jakus 102 (1988) 82

Runge, S. and G.H. Frischat, Stability of Al_2O_3-containing droplets in glass melts 102 (1988) 157

Ruppert, A., see Persans 102 (1988) 130

Sakka, S., H. Kozuka and T. Adachi, Stability of solutions, gels and glasses in the sol–gel glass synthesis (*Invited paper*) 102 (1988) 263

Schnatter, K.H., R.H. Doremus and W.A. Lanford, Hydrogen analysis of soda-lime silicate glass 102 (1988) 11

Scholze, H., Glass–water interactions (*Invited paper*) 102 (1988) 1

Schramm, C.M., see Dickinson Jr 102 (1988) 196

Schroeder, J. and J.J. Jarek, Nitrogen doping of fused silica and silicate glasses: a study of transport and optical properties 102 (1988) 181

Schroeder, J., L.G. Hwa, G. Kendall, C.S. Dumais, M.C. Shyong and D.A. Thompson, Inelastic light scattering in halide and oxide glasses: intrinsic Brillouin linewidths and stimulated Brillouin gain 102 (1988) 240

Schroeder, J., V.G. Tsoukala, G.A. Floudas and D.A. Thompson, Optical studies of glass stability in fluoride glass systems: Intrinsic Rayleigh scattering 102 (1988) 295

Shelby, J.E., see Jewell 102 (1988) 24
Shelby, J.E., see Higby 102 (1988) 125
Shelby, J.E., see Bhargava 102 (1988) 136
Shelby, J.E., see Coon 102 (1988) 143
Shingyouchi, K., see Makishima 102 (1988) 275
Shyong, M.C., see Schroeder 102 (1988) 240

Singh, S., J. L. Katz, J. Antonucci, R.W. Penn and J.A. Tesk, The elastic properties of glass reinforced dental composites 102 (1988) 112

Skutnik, B.J., see Wei 102 (1988) 100
Skutnik, B.J., see Clarkin 102 (1988) 106
Snyder, R.L., see Bhargava 102 (1988) 136
Strutt, P.R., see Yi 102 (1988) 228

Tesk, J.A., see Singh 102 (1988) 112
Thompson, D.A., see Schroeder 102 (1988) 240
Thompson, D.A., see Schroeder 102 (1988) 295
Tolk, N.H., see Wang 102 (1988) 288
Tomozawa, M., see Wakabayashi 102 (1988) 95
Tsoukala, V.G., see Schroeder 102 (1988) 295
Tsutsumi, M., see Makishima 102 (1988) 275

Turnbull, D., Phase stability of glasses (*Invited paper*) 102 (1988) 117

Van Uitert, L.G., see Bruce 102 (1988) 19

Wakabayashi, H. and M. Tomozawa, Effect of ammonia on static fatigue of silica glass 102 (1988) 95

Wang, P.W., R.F. Haglund Jr, D.L. Kinser, M.H. Mendenhall, N.H. Tolk and R.A. Weeks, Luminescence induced by low energy electron deposition in Suprasil and Spectrosil glasses 102 (1988) 288
Watson, E.B., see Baker 102 (1988) 62
Weeks, R.A., see Wang 102 (1988) 288
Wei, T. and B.J. Skutnik, Effect of coating on fatigue behavior of optical fiber 102 (1988) 100
Yi, J.J.L. and P.R. Strutt, Structural stability of chalcogenide glasses 102 (1988) 228

Journal of Non-Crystalline Solids 102 (1988) 306–308
North-Holland, Amsterdam

SUBJECT INDEX

Amorphous Solids
Glass Transition, Structure 102 (1988) 259
Nucleation, Polymers 102 (1988) 148

Borates
Crystallization, Glass Ceramics 102 (1988) 136
Phosphates, Structure 102 (1988) 196

Chalcogenides
Phase Transition, Liquids 102 (1988) 228

Chemical Durability
Oxides, Tungstates 102 (1988) 19
Silica, Sputtering 102 (1988) 43
Silicates, Sol–Gel Method 102 (1988) 275
Water in Glass, Glass Fibers 102 (1988) 1

Coatings
Silica, Glass Fibers 102 (1988) 100
Silica, Glass Fibers 102 (1988) 106

Crystallization
Borates, Glass Ceramics 102 (1988) 136
Silica, Thin Films 102 (1988) 130
Silicates, Halide Glasses 102 (1988) 143
Silicates, Oxides 102 (1988) 125
Silicates, Sol–Gel Method 102 (1988) 269

Diffusion
Silicates, Glass Surface 102 (1988) 11
Silicates, Liquids 102 (1988) 62
Silicates, Liquids 102 (1988) 157

Elastic Properties
Oxides, Young's Modulus 102 (1988) 112

Electron Microscopy
Halide Glasses, Phase Separation 102 (1988) 150

Electron Spin Resonance
Silicates, Water in Glass 102 (1988) 30

Fluorides
Optical Properties, Light Scattering 102 (1988) 295
Thermodynamics, Liquids 102 (1988) 165

Fracture
Silica, Strength 102 (1988) 95

Glass Ceramics
Borates, Crystallization 102 (1988) 136

Glass Fibers
Oxides, Strength 102 (1988) 71
Silica, Coatings 102 (1988) 100
Silica, Coatings 102 (1988) 106
Silica, Hardness 102 (1988) 82
Water in Glass, Chemical Durability 102 (1988) 1

Glass Formation
Glass Transition, Thermodynamics 102 (1988) 117
Oxides, Phosphates 102 (1988) 173
Sol–Gel Method, Silica 102 (1988) 263

Glass Surface
Silicates, Diffusion 102 (1988) 11

Glass Transition
Amorphous Solids, Structure 102 (1988) 259
Silicates, Refractive Index 102 (1988) 255
Silicates, Water in Glass 102 (1988) 24
Structure, Relaxation 102 (1988) 231
Structure, Relaxation 102 (1988) 250
Thermodynamics, Glass Formation 102 (1988) 117

Halide Glasses
Oxides, Light Scattering 102 (1988) 240
Phase Separation, Electron Microscopy 102 (1988) 150
Silicates, Crystallization 102 (1988) 143

Hardness
Silica, Glass Fibers 102 (1988) 82
Silicates, Strength 102 (1988) 88

Heat Capacity
Silicates, Relaxation 102 (1988) 222

Ionic Conductivity
Silicates, Transport Properties – Solids 102 (1988) 50

Light Scattering
Fluorides, Optical Properties 102 (1988) 295
Halide Glasses, Oxides 102 (1988) 240

Liquids
Chalcogenides, Phase Transition 102 (1988) 228
Fluorides, Thermodynamics 102 (1988) 165

Silicates, Diffusion 102 (1988) 62
Silicates, Diffusion 102 (1988) 157
Structure, Relaxation 102 (1988) 205

Nucleation
Amorphous Solids, Polymers 102 (1988) 148

Optical Properties
Fluorides, Light Scattering 102 (1988) 295
Silica, Radiation Effects 102 (1988) 288
Silicates, Sputtering 102 (1988) 36

Oxides
Elastic Properties, Young's Modulus 102 (1988) 112
Halide Glasses, Light Scattering 102 (1988) 240
Phosphates, Glass Formation 102 (1988) 173
Silicates, Crystallization 102 (1988) 125
Strength, Glass Fibers 102 (1988) 71
Tungstates, Chemical Durability 102 (1988) 19

Phase Separation
Halide Glasses, Electron Microscopy 102 (1988) 150

Phase Transition
Chalcogenides, Liquids 102 (1988) 228

Phosphates
Borates, Structure 102 (1988) 196
Oxides, Glass Formation 102 (1988) 173

Polymers
Nucleation, Amorphous Solids 102 (1988) 148
Sol–Gel Method, Silica 102 (1988) 280

Radiation Effects
Silica, Optical Properties 102 (1988) 288

Refractive Index
Silicates, Glass Transition 102 (1988) 255

Relaxation
Glass Transition, Structure 102 (1988) 231
Glass Transition, Structure 102 (1988) 250
Liquids, Structure 102 (1988) 205
Silicates, Heat Capacity 102 (1988) 222

Silica
Chemical Durability, Sputtering 102 (1988) 43
Crystallization, Thin Films 102 (1988) 130
Fracture, Strength 102 (1988) 95
Glass Fibers, Coatings 102 (1988) 100
Glass Fibers, Coatings 102 (1988) 106
Glass Fibers, Hardness 102 (1988) 82
Radiation Effects, Optical Properties 102 (1988) 288
Silicates, Transport Properties – Solids 102 (1988) 181
Sol–Gel Method, Glass Formation 102 (1988) 263
Sol–Gel Method, Polymers 102 (1988) 280

Silicates
Crystallization, Oxides 102 (1988) 125
Crystallization, Sol–Gel Method 102 (1988) 269
Glass Surface, Diffusion 102 (1988) 11
Halide Glasses, Crystallization 102 (1988) 143
Ionic Conductivity, Transport Properties – Solids 102 (1988) 50
Liquids, Diffusion 102 (1988) 62
Liquids, Diffusion 102 (1988) 157
Optical Properties, Sputtering 102 (1988) 36
Refractive Index, Glass Transition 102 (1988) 255
Relaxation, Heat Capacity 102 (1988) 222
Silica, Transport Properties – Solids 102 (1988) 181
Sol–Gel Method, Chemical Durability 102 (1988) 275
Strength, Hardness 102 (1988) 88
Water in Glass, Electron Spin Resonance 102 (1988) 30
Water in Glass, Glass Transition 102 (1988) 24

Sol–Gel Method
Silica, Glass Formation 102 (1988) 263
Silica, Polymers 102 (1988) 280
Silicates, Chemical Durability 102 (1988) 275
Silicates, Crystallization 102 (1988) 269

Sputtering
Silica, Chemical Durability 102 (1988) 43
Silicates, Optical Properties 102 (1988) 36

Strength
Oxides, Glass Fibers 102 (1988) 71
Silica, Fracture 102 (1988) 95
Silicates, Hardness 102 (1988) 88

Structure
Amorphous Solids, Glass Transition 102 (1988) 259
Borates, Phosphates 102 (1988) 196
Glass Transition, Relaxation 102 (1988) 231
Glass Transition, Relaxation 102 (1988) 250
Liquids, Relaxation 102 (1988) 205

Thermodynamics
Fluorides, Liquids 102 (1988) 165
Glass Transition, Glass Formation 102 (1988) 117

Thin Films
Silica, Crystallization 102 (1988) 130

Transport Properties – Solids
Silica, Silicates 102 (1988) 181
Silicates, Ionic Conductivity 102 (1988) 50

Tungstates
Oxides, Chemical Durability 102 (1988) 19

Water in Glass
Chemical Durability, Glass Fibers 102 (1988) 1
Silicates, Electron Spin Resonance 102 (1988) 30
Silicates, Glass Transition 102 (1988) 24

Young's Modulus
Oxides, Elastic Properties 102 (1988) 112